

**IN THE CLAIMS:**

Please amend claim 1 as follows:

1. (Amended) A method for automotive evaporative leak detection for use with a system [having] including a tank [with a] having vapor at a known pressure [having a known value] at a first point in time, the method comprising [the steps of]:

91 [a.] measuring and recording a first temperature of the vapor at substantially the first point in time;

[b.] measuring and recording a second [the] temperature and a measured pressure of the vapor at a second point in time;

[c.] computing a temperature-compensated pressure based on previously measured values; and

[d.] comparing the temperature-compensated pressure with the pressure measured at a second point in time to detect a leak.

Please add the following new claim 17:

-- 17. A method for evaporative leak detection in an automotive fuel system, the method comprising:

measuring and recording a first temperature and a first vapor pressure in the fuel system at a first point in time;

Q2 measuring and recording a second temperature and a second vapor pressure in the fuel system at a second point in time;

compensating the first vapor pressure based on the first and second temperatures, thereby defining a temperature-compensated first vapor pressure; and

comparing the temperature-compensated first vapor pressure with the second vapor pressure to detect a leak in the fuel system between the first and second points in time.--